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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/965,218	09/27/2001	Peter J. Wagener	P6051	3868

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KUDIRKA & JOBSE, LLP
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EXAMINER

CORRIELUS, JEAN M

ART UNIT	PAPER NUMBER
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2162

DATE MAILED: 05/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/965,218

Applicant(s)

WAGENER ET AL.

Examiner

Jean M Corrielus

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 March 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

1. This office action is in response to the amendment filed on March 30, 2005, in which claims 1-26 are presented for further examination.

Response to Arguments

2. Applicant's arguments filed December 16, 2004 have been fully considered but they are not persuasive. The rejection under 35 USC 112 has been withdrawn in view of the applicants' arguments and the double patenting rejection is hereby sustained.

Double Patenting

3. The non statutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Claims 1-26 are provisionally rejected under the judicially created doctrine of double patenting over claims 1-26 of copending Application No. 09/960,122. This is a provisional double patenting rejection since the conflicting claims have not yet been patented.

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The subject matter claimed in the instant application is fully disclosed in the referenced copending application and would be covered by any patent granted on that copending application since the referenced copending application and the instant application are claiming common subject matter. Although the conflicting claims are not identical, they are not patentably distinct from each other because of the following reasons: Claim 1 of the instant application substantially recites the limitations of claim 1 of the cited co-pending application. The claim merely omits certain the underlined limitations and replaces the bolded limitations as shown in comparison table 1 below.

Application Claim 1	Co-pending Application 1
<p>1. A method for managing data volumes from a management terminal in a distributed computer system having a host computer system with at least one storage device connected to the computer system by driver software, the method comprising:</p> <p>(a) inserting an interface layer between the driver software and the storage device, the interface layer exporting a platform dependent API and controlling data passing between the driver software and the storage;</p> <p>(b) running, in the host, management façade software that converts the interface layer API to platform-independent method calls;</p> <p>(c) running, the host, a federated beam that discovers data volumes in the storage device and generates method calls to the management façade to control the interface layer; and</p> <p>(d) controlling the federated beam to display and configure the data volume.</p>	<p>1. A method for managing data volumes from a management terminal in a distributed computer system having a host computer system with at least one storage device connected to the computer system by driver software, the method comprising:</p> <p>(a) inserting an interface layer between the driver software and the storage device, the interface layer exporting a platform dependent API and controlling data passing between the driver software and the storage;</p> <p>(b) running, in the host, management façade software that converts the interface layer API to platform-independent method calls;</p> <p>(c) running, the host, a federated beam that discovers data volumes in the storage device and generates method calls to the management façade to control the interface layer; and</p> <p>(d) controlling the federated beam <u>to designate master volumes, shadow volumes and bitmap volumes and to transfer data between specified master and shadow volumes.</u></p>

Table 1

It would have been obvious to one of ordinary skill in the art of data processing at the time the invention was made to modify the cited steps as indicated claim 1 of the co-pending application since the omission and addition of the cited limitations would have not changed the process according to which the method for managing data volumes from a management terminal in a distributed computer system. Therefore, the ordinary skilled artisan would have been also

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motivated to modify claim 1 of the cited US co-pending application by deleting the use of designating master volumes, shadowing volumes and bitmap volumes and transferring data between specified master and shadow volumes. The cited omitting elements would not interfere with the functionality of the steps previously claimed and would perform the same function. In re Karlson, 136 USPQ 184 (CCPA 1963).

The dependent claims 2-11 of the instant application are rejected for fully incorporating the errors of their respective base claims by dependency.

Application Claim 12	Co-pending Application 9
<p>12. A method for managing data volumes from a management terminal in a distributed computer system having a host computer system with at least one storage device connected to the computer system by driver software, the method comprising:</p> <p>(a) an interface layer between the driver software and the storage device, the interface layer exporting a platform dependent API and controlling data passing between the driver software and the storage;</p> <p>(b) management façade software that converts the interface layer API to platform-independent method calls;</p> <p>(c) a federated beam that discovers data volumes in the storage device and generates method calls to the management façade to control the interface layer; and</p> <p>(d) a presentation program that controls the federated beam to display and configure the data volume.</p>	<p>9. Apparatus for managing data volumes from a management terminal in a distributed computer system having a host computer system with at least one storage device connected to the computer system by driver software, the apparatus comprising:</p> <p>(a) an interface layer located between the driver software and the storage device, the interface layer exporting a platform dependent API and controlling data passing between the driver software and the storage;</p> <p>(b) management façade software that runs in the host computer system and converts the interface layer API to platform-independent method calls;</p> <p>(c) federated beam that runs in the host computer system and generates method calls to the management façade to control the interface layer; and</p> <p>(d) a presentation program that controls the federated beam <u>to designate master volumes, shadow volumes and bitmap volumes and to transfer data between specified master and shadow volumes.</u></p>

Table 2

It would have been obvious to one of ordinary skill in the art of data processing at the time the invention was made to modify the cited steps as indicated claim 12 of the co-pending application since the omission and addition of the cited limitations would have not changed the process according to which the method for managing data volumes from a management terminal in a distributed computer system. Therefore, the ordinary skilled artisan would have been also

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motivated to modify claim 12 of the cited US co-pending application by deleting the use of designating master volumes, shadowing volumes and bitmap volumes and transferring data between specified master and shadow volumes. The cited omitting elements would not interfere with the functionality of the steps previously claimed and would perform the same function. In re Karlson, 136 USPQ 184 (CCPA 1963).

The dependent claims 13-22 of the instant application are rejected for fully incorporating the errors of their respective base claims by dependency.

Application Claim 23	Co-pending Application 17
<p>23. A computer program product for managing data volumes from a management terminal in a distributed computer system having a host computer system with at least one storage device connected to the computer system by driver software, the method comprising:</p> <p>(a) an interface layer program code between the driver software and the storage device, the interface layer exporting a platform dependent API and controlling data passing between the driver software and the storage;</p> <p>(b) management façade software that converts the interface layer API to platform-independent method calls;</p> <p>(c) a federated beam program code that discovers data volumes in the storage device and generates method calls to the management façade to control the interface layer; and</p> <p>(d) a presentation program that controls the federated beam to display and configure the data volume</p>	<p>17. A computer program product for managing data volumes from a management terminal in a distributed computer system having a host computer system with at least one storage device connected to the computer system by driver software, the apparatus comprising:</p> <p>(a) an interface layer program code located between the driver software and the storage device, the interface layer exporting a platform dependent API and controlling data passing between the driver software and the storage;</p> <p>(b) management façade software that runs in the host computer system and converts the interface layer API to platform-independent method calls;</p> <p>(c) federated beam program code that runs in the host computer system and generates method calls to the management façade to control the interface layer; and</p> <p>(d) a presentation program that controls the federated beam to designate master volumes, shadow volumes and bitmap volumes and to transfer data between specified master and shadow volumes.</p>

Table 3

It would have been obvious to one of ordinary skill in the art of data processing at the time the invention was made to modify the cited steps as indicated claim 23 of the co-pending application since the omission and addition of the cited limitations would have not changed the process according to which the method for managing data volumes from a management terminal in a distributed computer system. Therefore, the ordinary skilled artisan would have been also

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motivated to modify claim 23 of the cited US co-pending application by deleting the use of designating master volumes, shadowing volumes and bitmap volumes and transferring data between specified master and shadow volumes. The cited omitting elements would not interfere with the functionality of the steps previously claimed and would perform the same function. In re Karlson, 136 USPQ 184 (CCPA 1963).

The dependent claims 24-25 of the instant application are rejected for fully incorporating the errors of their respective base claims by dependency.

Application Claim 26	Co-pending Application 20
<p>26. A computer data signal embodied in a carrier wave for managing data volumes from a management terminal in a distributed computer system having a host computer system with at least one storage device connected to the computer system by driver software, the method comprising:</p> <p>(a) an interface layer program code between the driver software and the storage device, the interface layer exporting a platform dependent API and controlling data passing between the driver software and the storage;</p> <p>(b) management façade software that converts the interface layer API to platform-independent method calls;</p> <p>(c) a federated beam program code that discovers data volumes in the storage device and generates method calls to the management façade to control the interface layer; and</p> <p>(d) a presentation program that controls the federated beam to display and configure the data volume</p>	<p>20. A computer program product for managing data volumes from a management terminal in a distributed computer system having a host computer system with at least one storage device connected to the computer system by driver software, the apparatus comprising:</p> <p>(a) an interface layer program code located between the driver software and the storage device, the interface layer exporting a platform dependent API and controlling data passing between the driver software and the storage;</p> <p>(b) management façade software that runs in the host computer system and converts the interface layer API to platform-independent method calls;</p> <p>(c) federated beam program code that runs in the host computer system and generates method calls to the management façade to control the interface layer; and</p> <p>(d) a presentation program that controls the federated beam <u>to designate master volumes, shadow volumes and bitmap volumes and to transfer data between specified master and shadow volumes.</u></p>

Table 4

It would have been obvious to one of ordinary skill in the art of data processing at the time the invention was made to modify the cited steps as indicated claim 26 of the co-pending application since the omission and addition of the cited limitations would have not changed the process according to which the method for managing data volumes from a management terminal in a distributed computer system. Therefore, the ordinary skilled artisan would have been also

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motivated to modify claim 26 of the cited US co-pending application by deleting the use of designating master volumes, shadowing volumes and bitmap volumes and transferring data between specified master and shadow volumes. The cited omitting elements would not interfere with the functionality of the steps previously claimed and would perform the same function. In re Karlson, 136 USPQ 184 (CCPA 1963).

The dependent claims 2-11 of the instant application are rejected for fully incorporating the errors of their respective base claims by dependency.

Allowable Subject Matter

5. Claims 1-26 would be allowable upon filing a terminal disclaimer to overcome the double patenting rejection set forth in this Office action.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

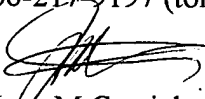
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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean M Corrielus whose telephone number is (571) 272-4032.

The examiner can normally be reached on 10 hours shift.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jean M Corrielus
Primary Examiner
Art Unit 2162

April 22, 2005